

# SCORE Search Results Details for Application 10552515 and Search Result 20081001\_124607\_us-10-552-515-1.rapbm.

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This page gives you Search Results detail for the Application 10552515 and Search Result 20081001\_124607\_us-10-552-515-1.rapbm.

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OM protein - protein search, using sw model

Run on: October 1, 2008, 12:46:15 ; Search time 829 Seconds  
(without alignments)  
1085.529 Million cell updates/sec

Title: US-10-552-515-1  
Perfect score: 4950  
Sequence: 1 MRMAATAWAGLQGPPLPTLC.....SELSSHWTFTVFKASQLQQ 933

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 4190237 seqs, 964526986 residues

Total number of hits satisfying chosen parameters: 4190237

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_AA\_Main:\*

- 1: /ABSS/Data/CRF/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /ABSS/Data/CRF/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
- 3: /ABSS/Data/CRF/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*
- 4: /ABSS/Data/CRF/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*
- 5: /ABSS/Data/CRF/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
- 6: /ABSS/Data/CRF/ptodata/2/pubpaa/US11A\_PUBCOMB.pep:\*
- 7: /ABSS/Data/CRF/ptodata/2/pubpaa/US11B\_PUBCOMB.pep:\*
- 8: /ABSS/Data/CRF/ptodata/2/pubpaa/US12\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	% Query		Length	DB	ID	Description
	Score	Match				
1	4950	100.0	933	5	US-10-552-515-1	Sequence 1, Appli
2	4531.5	91.5	885	7	US-11-599-845A-700	Sequence 700, App
3	4364.5	88.2	843	7	US-11-599-845A-698	Sequence 698, App
4	3736	75.5	898	5	US-10-450-763-45847	Sequence 45847, A
5	1531.5	30.9	920	4	US-10-104-047-2574	Sequence 2574, Ap
6	1531.5	30.9	920	6	US-11-072-512-2574	Sequence 2574, Ap
7	1527.5	30.9	981	6	US-11-582-861-10841	Sequence 10841, A
8	1511	30.5	1046	6	US-11-582-861-9875	Sequence 9875, Ap
9	1508	30.5	981	6	US-11-443-428A-801153	Sequence 801153,
10	1488	30.1	960	6	US-11-177-894-7	Sequence 7, Appli
11	1479.5	29.9	840	6	US-11-177-894-11	Sequence 11, Appl
12	1464	29.6	999	6	US-11-443-428A-774192	Sequence 774192,
13	1445	29.2	1219	6	US-11-097-143-15228	Sequence 15228, A
14	1417	28.6	800	6	US-11-443-428A-739452	Sequence 739452,
15	1417	28.6	800	6	US-11-443-428A-739454	Sequence 739454,
16	1416	28.6	853	6	US-11-443-428A-739456	Sequence 739456,
17	1402.5	28.3	910	5	US-10-484-148-14	Sequence 14, Appl
18	1386	28.0	891	6	US-11-582-861-10193	Sequence 10193, A
19	1369.5	27.7	1075	6	US-11-097-143-24771	Sequence 24771, A
20	1367.5	27.6	712	6	US-11-177-894-10	Sequence 10, Appl
21	1199.5	24.2	1058	6	US-11-097-143-21858	Sequence 21858, A
22	1154	23.3	596	4	US-10-104-047-2541	Sequence 2541, Ap
23	1154	23.3	596	6	US-11-072-512-2541	Sequence 2541, Ap
24	1061.5	21.4	594	5	US-10-631-467-681	Sequence 681, App
25	1061.5	21.4	594	5	US-10-529-348-1242	Sequence 1242, Ap
26	1061.5	21.4	594	5	US-10-917-503-10953	Sequence 10953, A
27	1061.5	21.4	594	6	US-11-177-894-8	Sequence 8, Appli
28	1056.5	21.3	825	6	US-11-443-428A-1026041	Sequence 1026041,
29	1037.5	21.0	782	4	US-10-066-543-1424	Sequence 1424, Ap
30	1037.5	21.0	793	6	US-11-443-428A-1026033	Sequence 1026033,
31	912.5	18.4	475	4	US-10-104-047-3116	Sequence 3116, Ap
32	912.5	18.4	475	6	US-11-072-512-3116	Sequence 3116, Ap
33	909	18.4	756	5	US-10-692-382-446	Sequence 446, App
34	905	18.3	642	4	US-10-108-260A-4483	Sequence 4483, Ap
35	905	18.3	642	6	US-11-177-894-9	Sequence 9, Appli
36	905	18.3	642	6	US-11-293-697-4483	Sequence 4483, Ap
37	886	17.9	573	6	US-11-443-428A-774194	Sequence 774194,
38	881.5	17.8	550	6	US-11-443-428A-774193	Sequence 774193,
39	829	16.7	631	6	US-11-443-428A-739453	Sequence 739453,
40	819.5	16.6	443	4	US-10-264-049-2917	Sequence 2917, Ap
41	817.5	16.5	179	5	US-10-495-663-1	Sequence 1, Appli
42	814.5	16.5	853	6	US-11-443-428A-1026043	Sequence 1026043,
43	784.5	15.8	390	4	US-10-264-237-2758	Sequence 2758, Ap
44	735	14.8	139	3	US-09-957-708-31	Sequence 31, Appl
45	735	14.8	139	6	US-11-230-251-31	Sequence 31, Appl

## ALIGNMENTS

## RESULT 1

US-10-552-515-1

; Sequence 1, Application US/10552515

; Publication No. US20060194204A1

## ; GENERAL INFORMATION:

; APPLICANT: The Government of the United States of America as

; APPLICANT: represented by the Secretary of the Department of Health and

; APPLICANT: Human Services

; APPLICANT: Bera, Tapan K.

; APPLICANT: Pastan, Ira H.

; APPLICANT: Lee, Byungkook

; TITLE OF INVENTION: GENE EXPRESSED IN PROSTATE CANCER AND METHODS OF USE

; FILE REFERENCE: 4239-68223-02

; CURRENT APPLICATION NUMBER: US/10/552,515

; CURRENT FILING DATE: 2005-10-06

; PRIOR APPLICATION NUMBER: PCT/US2004/10588

; PRIOR FILING DATE: 2004-04-05

; PRIOR APPLICATION NUMBER: 60/461,399

; PRIOR FILING DATE: 2003-04-08

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 1

; LENGTH: 933

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Splice Variant-Novels Gene Expressed in Prostate

US-10-552-515-1

Query Match 100.0%; Score 4950; DB 5; Length 933;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 933; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 MRMAATAWAGLQGPPPLFTLCPAVRTGLYCRDQAAHAERWAMTSETSSGSHCARSRMLRRRA 60
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Db      1 MRMAATAWAGLQGPPPLFTLCPAVRTGLYCRDQAAHAERWAMTSETSSGSHCARSRMLRRRA 60

Qy     61 QEEDSTVLIDVSPPEAEKRGSYGSTAHASEPGGQQAACRAGSPAKPRIADFVLVWEEDL 120
        |||
Db     61 QEEDSTVLIDVSPPEAEKRGSYGSTAHASEPGGQQAACRAGSPAKPRIADFVLVWEEDL 120

Qy    121 KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQDQDNTTVHYALLSASWAVLC 180
        |||
Db    121 KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQDQDQDNTTVHYALLSASWAVLC 180

Qy    181 YYAEDLRLKLPQLPNQASNWSAGLLAWLGIPNVLLVVPDVPPEYYSCRFRVKNLPRF 240
        |||
Db    181 YYAEDLRLKLPQLPNQASNWSAGLLAWLGIPNVLLVVPDVPPEYYSCRFRVKNLPRF 240

Qy    241 LGSDNQDTFFTSTKRHQILFEILAKTPYGHEKNLLGIHQLLAEGVLSAAFPLHDGPFKT 300
        |||
Db    241 LGSDNQDTFFTSTKRHQILFEILAKTPYGHEKNLLGIHQLLAEGVLSAAFPLHDGPFKT 300

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Qy	301	PPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPA	360
Db	301	PPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPA	360
Qy	361	AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH	420
Db	361	AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH	420
Qy	421	GGTVFFSLFMALWAVLLELYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPI	480
Db	421	GGTVFFSLFMALWAVLLELYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPI	480
Qy	481	TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAW	540
Db	481	TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAW	540
Qy	541	ASRIASLTGSSVNLVLFILILSKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIQFVNFI	600
Db	541	ASRIASLTGSSVNLVLFILILSKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIQFVNFI	600
Qy	601	SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV	660
Db	601	SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV	660
Qy	661	LIPKLGWGWQKFLRLSKKRKAGASAGASQGPWEDDYELVPCGLFDEYLEMVLQFGFVTI	720
Db	661	LIPKLGWGWQKFLRLSKKRKAGASAGASQGPWEDDYELVPCGLFDEYLEMVLQFGFVTI	720
Qy	721	FVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	780
Db	721	FVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	780
Qy	781	AFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTCRYAFRDRDDGHYS	840
Db	781	AFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTCRYAFRDRDDGHYS	840
Qy	841	QTYWNLALRALFVIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVL	900
Db	841	QTYWNLALRALFVIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVL	900
Qy	901	FGTNGTKDEQPKGSELSSHWTPTFTVPKASQLQQ	933
Db	901	FGTNGTKDEQPKGSELSSHWTPTFTVPKASQLQQ	933

## RESULT 2

US-11-599-845A-700

; Sequence 700, Application US/11599845A

; Publication No. US20080025981A1

; GENERAL INFORMATION:

; APPLICANT: Young, Paul E.

; APPLICANT: Ebner, Reinhard

; APPLICANT: Weaver, Zoe

; APPLICANT: Strovel, Jeffrey W.

```

; APPLICANT: Horrigan, Stephen K.
; APPLICANT: Shea, Martin
; APPLICANT: Weigle, Bernd
; APPLICANT: Rieger, Michael
; APPLICANT: Rick, Jennifer A.
; APPLICANT: Cain, Colyn B.
; TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy
; FILE REFERENCE: 689290-273
; CURRENT APPLICATION NUMBER: US/11/599,845A
; CURRENT FILING DATE: 2006-11-15
; PRIOR APPLICATION NUMBER: 10/585,466
; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: PCT/US2005/000040
; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: 10/583,832
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: PCT/US2004/42406
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: 10/575,337
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: PCT/US2004/33072
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: 10/540,310
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: PCT/US2003/40710
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: 10/518,039
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: PCT/US2003/19741
; PRIOR FILING DATE: 2003-06-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 769
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 700
; LENGTH: 885
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-599-845A-700

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Query Match          91.5%; Score 4531.5; DB 7; Length 885;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 855; Conservative 0; Mismatches 0; Indels 3; Gaps 2;

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Qy      1 MRMAATAWAGLQGPPPLPTLCPAVRTGLYCRDQHAHAERWAMTSETSSGSHCARSMRLRRRA 60
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Db      5 MRMAATAWAGLQGPPPLPTLCPAVRTGLYCRDQHAHAERWAMTSETSSGSHCA--RMLRRRA 62

Qy      61 QEEDSTVLIDVSPPEAEKRGSYGSTAHASEPGGQQAACRAGSPAKPRIADFVLVWEEDL 120
        |||
Db      63 QEEDSTVLIDVSPPEAEKRGSYGSTAHASEPGGQQAACRAGSPAKPRI--DFVLVWEEDL 121

Qy      121 KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQDQDGNNTTVHYALLSASWAVLC 180
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Db      122 KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQDQDGNNTTVHYALLSASWAVLC 181

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Qy	181	YYAEDLRKLPLQELPNQASNWSAGLLAWLGIPNVLLLEVVPDPPEYYSCRFRVNKLPRF	240
Db	182	YYAEDLRKLPLQELPNQASNWSAGLLAWLGIPNVLLLEVVPDPPEYYSCRFRVNKLPRF	241
Qy	241	LGSNDQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPPLHDGPFKT	300
Db	242	LGSNDQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPPLHDGPFKT	301
Qy	301	PPEGPQAPRLNQOVLQFQHWARWGKWNKYQPLDHVRRYFGEKVYFALWGFYTGWLLPA	360
Db	302	PPEGPQAPRLNQOVLQFQHWARWGKWNKYQPLDHVRRYFGEKVYFALWGFYTGWLLPA	361
Qy	361	AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH	420
Db	362	AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH	421
Qy	421	GGTVFFSLFMALWAVLLELWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPI	480
Db	422	GGTVFFSLFMALWAVLLELWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPI	481
Qy	481	TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAW	540
Db	482	TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAW	541
Qy	541	ASRIASLTGSVVNLVFLILILSKIYVSLAHVLTWRWEMHRTQTKFEDAFTLKVFIFQFVNFI	600
Db	542	ASRIASLTGSVVNLVFLILILSKIYVSLAHVLTWRWEMHRTQTKFEDAFTLKVFIFQFVNFI	601
Qy	601	SSPVYIAFFKGRFVGYPGNHYTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV	660
Db	602	SSPVYIAFFKGRFVGYPGNHYTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV	661
Qy	661	LIPKLGWQKQFRLRSKKRKAGASAGASQGPWEDDYELVPC EGLFDEYLEMVLQFGFVTI	720
Db	662	LIPKLGWQKQFRLRSKKRKAGASAGASQGPWEDDYELVPC EGLFDEYLEMVLQFGFVTI	721
Qy	721	FVAACPLAPL FALLNNWVEIRLDARKEVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	780
Db	722	FVAACPLAPL FALLNNWVEIRLDARKEVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	781
Qy	781	AFLFAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTC RYAFRADDGHYS	840
Db	782	AFLFAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTC RYAFRADDGHYS	841
Qy	841	QTYWNLLAIRLAFVIVFE	858
Db	842	QTYWNLLAIRLAFVIVFE	859

# RESULT 3

US-11-599-845A-698

; Sequence 698, Application US/11599845A

; Publication No. US20080025981A1

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; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ebner, Reinhard
; APPLICANT: Weaver, Zoe
; APPLICANT: Strovel, Jeffrey W.
; APPLICANT: Horrigan, Stephen K.
; APPLICANT: Shea, Martin
; APPLICANT: Weigle, Bernd
; APPLICANT: Rieger, Michael
; APPLICANT: Rick, Jennifer A.
; APPLICANT: Cain, Colyn B.
; TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy
; FILE REFERENCE: 689290-273
; CURRENT APPLICATION NUMBER: US/11/599,845A
; CURRENT FILING DATE: 2006-11-15
; PRIOR APPLICATION NUMBER: 10/585,466
; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: PCT/US2005/000040
; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: 10/583,832
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: PCT/US2004/42406
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: 10/575,337
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: PCT/US2004/33072
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: 10/540,310
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: PCT/US2003/40710
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: 10/518,039
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: PCT/US2003/19741
; PRIOR FILING DATE: 2003-06-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 769
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 698
;   LENGTH: 843
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-599-845A-698

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Query Match          88.2%;   Score 4364.5;   DB 7;   Length 843;
Best Local Similarity 99.6%;   Pred. No. 0;
Matches 824; Conservative 0; Mismatches 0; Indels 3; Gaps 2;

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Db      5 MRMAATAWAGLQGPPLPTLCPAVRTGLYCRDQAHAEERWAMTSETSSGSHCA--RMLRRRA 62

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Qy      61 QEEDSTVLIDVSPPEAEKRGSGYSTAHASEPGGQQAACRAGSPAKPRIADFVLVWEEDL 120
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Db	63	QEEEDSTVLIDVSPPEAEKRGSYGSTAHASEPGGQAAACRAGSPAKPRI-DFVLVWEEDL	121
Qy	121	KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQDQDGNNTTVHYALLSASWAVLC	180
Db	122	KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQDQDGNNTTVHYALLSASWAVLC	181
Qy	181	YYAEDLRKLPLQELPNQASNWSAGLLAWLGIPNVLLVVPDVPPEYYSRFRVKNLPRF	240
Db	182	YYAEDLRKLPLQELPNQASNWSAGLLAWLGIPNVLLVVPDVPPEYYSRFRVKNLPRF	241
Qy	241	LGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPPLHDGPFKT	300
Db	242	LGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPPLHDGPFKT	301
Qy	301	PPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALLYFAWLGFYTGWLLPA	360
Db	302	PPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALLYFAWLGFYTGWLLPA	361
Qy	361	AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH	420
Db	362	AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH	421
Qy	421	GGTVFFSLFMALWAVLLEWYWKRSATLAYRWCSDYEDTEERPRPQFAASAPMTAPNPI	480
Db	422	GGTVFFSLFMALWAVLLEWYWKRSATLAYRWCSDYEDTEERPRPQFAASAPMTAPNPI	481
Qy	481	TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAW	540
Db	482	TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAW	541
Qy	541	ASRIASLTGSVVNLVLFILILSKIYVSLAHVLTREWEMHRTQTKFEDAFTLKVFIQFVNFI	600
Db	542	ASRIASLTGSVVNLVLFILILSKIYVSLAHVLTREWEMHRTQTKFEDAFTLKVFIQFVNFI	601
Qy	601	SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV	660
Db	602	SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV	661
Qy	661	LIPKLKGWQKFLRLSKRRKAGASAGASQGPWEDDYELVPCCEGLFDEYLEMVLQFGFVTI	720
Db	662	LIPKLKGWQKFLRLSKRRKAGASAGASQGPWEDDYELVPCCEGLFDEYLEMVLQFGFVTI	721
Qy	721	FVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	780
Db	722	FVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	781
Qy	781	AFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTC	827
Db	782	AFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTC	828

RESULT 4

US-10-450-763-45847

; Sequence 45847, Application US/10450763



http://es.ScoreAccessWeb/GetItem.action?AppId=105525... 124607 us-10-552-515-1.rapbm&ItemType=4&startByte=0 (9 of 29)10/10/2008 8:45:58 AM

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Db      421 KYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSIPTQELCGS 480
Qy      388 KDSFEMCPLCLDCPFWLLSSACALAQ---AGRLFDHGGTVFFSLFMALWAVLLLEYWKR 443
Db      481 KDSFEMCPLCLDCPFWLLSSACALAQVREEAGRLFDHGGTVFFSLFMALWAVLLLEYWKR 540
Qy      444 KSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFFPERSRARRMLAGSVV 503
Db      541 KSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFFPERSRARRMLAGSVV 600
Qy      504 IVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKI 563
Db      601 IVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKI 660
Qy      564 YVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFISSPVYIAFFKGRFVGYPGNYHTL 623
Db      661 YVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFISSPVYIAFFKGRFVGYPGNYHTL 720
Qy      624 FGVNNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKLGWWQKFLRLSKKRKAGA 683
Db      721 FGVNNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKLGWWQKFLRLSKKRKAGA 780
Qy      684 SAGASQGPWEDDYELVPCGLFDEYLEM----- 711
Db      781 SAGASQGPWEDDYELVPCGLFDEYLEMAGAGFCPNACPELVPPELPEPEKARDQPEARSAG 840
Qy      712 -----VLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKE 747
Db      841 QDSRPEAVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKE 883

```

# RESULT 5

```

US-10-104-047-2574
; Sequence 2574, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2574
; LENGTH: 920
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-2574

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Query Match 30.9%; Score 1531.5; DB 4; Length 920;  
 Best Local Similarity 37.9%; Pred. No. 1.9e-138;

Matches	360;	Conservative	168;	Mismatches	316;	Indels	105;	Gaps	29;
Qy	44	TSSGSHCARSRMLRRRAQEEDSTVLID----	VSPPEAE-----	KRGSYGST---AHASEP	91				
Db	4	SSSGITNGTKVFPHPVA--KDVNILFDELEAVSSPKDDDSLHPGNLTSTSDDASRLEA	61						
Qy	92	GGQAAACRAGS-----	PAKPRIADFVLVWEEDKLDRQDQSAARDRTDMHRTWRETFD	146					
Db	62	GGETVPERNKSNGLYFRDGGKRI-DYILVYRK-----	SNPQTEK----REVFER	105					
Qy	147	NLRAAGLCVDQDQVQDGNNTTVHYALLSASWAVLCYYAEDLRKLKPLQE----	LPNQASNW	202					
Db	106	NIRAEGLQMEKESSLI-NSDII FVKLHAPWEVLGRYAEQMNVRMPFRRKIIYLPRRYKFM	164						
Qy	203	S-----AGLLAWLGIPNVLL--	EVVPDVP--EYYSRFRVKNLPRFLGSDNQDTFTTST	253					
Db	165	SRIDKQISRLRRWLPPKPMRLDKETLPDLEENDCYTAPFSQQRHIFI-IHNKETFFNNA	223						
Qy	254	KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFLPHDGPFPKTPPEGPQAPRLNQ	313						
Db	224	TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAFLPHEGSYRSKNSIRTHGAENHR	282						
Qy	314	QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCF	373						
Db	283	HLLYECWASWGVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLGFVFLYGV	342						
Qy	374	LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL	432						
Db	343	TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV	401						
Qy	433	WAVLLELYWKRKSATLAYRWDSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYPPER	491						
Db	402	WATVLFLEFWKRRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQFT	461						
Qy	492	SRARRLAGSVVIVVMVAVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----	SRIA	545					
Db	462	DKCSRLIVSAGIFFMICVVI AAVFGIVIRVTV-----	STFAAFKWLIRNNSQVA	514					
Qy	546	SLTGSVV--NLVFILILSKIYVSLAHVLTREWEMHRTQTKFEADFTLKVFIFQFVN FYSSP	603						
Db	515	T-TGTAVCFINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLGFQFVNLSST	573						
Qy	604	VYIAFFKGFRVGYPGNYHTLFG--VRNEECAAGGLIELAQELLVIMVGKQVINNMQEVLI	662						
Db	574	FYIAFFLGRTGHPGAYLRILNRWRLEECHPSGCLIDLQMGMIIIMVLKQTWNFMELGY	633						
Qy	663	PKLKGWQKFRRLRSKKRKAGASAGSQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTI	720						
Db	634	PLIQNWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI	690						
Qy	721	FVAACPLAPLALLNNWVEIRLDARKEFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN	780						
Db	691	FVAAFPLAPLALLNNIIERLDAYKFVTQWRRPLASRAKDIGIWIYGILEGIGILSVITN	750						

```

Qy      781 AFLFAFSSDFLPRAYRW-----TRAHDLRGFLNFTLA-----RAP 816
      |:::| :||:| | :      : |:| :|:
Db      751 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPEDSG 810

Qy      817 SSFAAAHNRTCryRAFRDDGH-----YSQTYWNLLAIRLAFVIVFEHVFSVGRLLDLL 871
      | | :   : ||| :| |      | : |:| | |||:| |||:| | : | : |
Db      811 SEFSGTPLKYCRYRDYRDPHSLVPYGYTLQFWHVLAAARLAFIIVFEHLVFCIKHLISYL 870

Qy      872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
      :||:| : : ||| | | : : : | | :      | : | : |
Db      871 IPDLPKDLDRMRREKYLIQEMMYEALERLQKERKERKKNGKAHHNEW 919

```

## RESULT 6

US-11-072-512-2574

; Sequence 2574, Application US/11072512

; Publication No. US20060029945A1

## ; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO

; APPLICANT: SUGIYAMA, TOMOYASU

; APPLICANT: OTSUKI, TETSUJI

; APPLICANT: WAKAMATSU, AI

; APPLICANT: SATO, HIROYUKI

; APPLICANT: ISHII, SHIZUKO

; APPLICANT: YAMAMOTO, JUN-ICHI

; APPLICANT: ISONO, YUUKO

; APPLICANT: HIO, YURI

; APPLICANT: OTSUKA, KAORU

; APPLICANT: NAGAI, KEIICHI

; APPLICANT: IRIE, RYOTARO

; APPLICANT: TAMECHIKA, ICHIRO

; APPLICANT: SEKI, NAOHIKO

; APPLICANT: YOSHIKAWA, TSUTOMU

; APPLICANT: OTSUKA, MOTOYUKI

; APPLICANT: NAGAHARI, KENJI

; APPLICANT: MASUHO, YASUHIKO

; TITLE OF INVENTION: Novel full length cDNA

; FILE REFERENCE: 084335-0191

; CURRENT APPLICATION NUMBER: US/11/072,512

; CURRENT FILING DATE: 2005-03-07

; PRIOR APPLICATION NUMBER: US 60/350,978

; PRIOR FILING DATE: 2002-01-25

; PRIOR APPLICATION NUMBER: JP 2001-379298

; PRIOR FILING DATE: 2001-11-05

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2574

; LENGTH: 920

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-072-512-2574

Query Match 30.9%; Score 1531.5; DB 6; Length 920;

Best Local Similarity 37.9%; Pred. No. 1.9e-138;

Matches 360: Conservative 168: Mismatches 316: Indels 105: Gaps 29:

Qy	44	TSSGSHCARSMRLRRRAQEEDSTVLID----VSPPEAE-----KRGSYGST---AHASEP	91
Db	4	SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDDSLHPGNLTSTSDDASRL	61
Qy	92	GGQQAACRAGS-----PAKPRIADFVLVWEEDLKLDQQDQAARDRTDMHRTWRETF	146
Db	62	GGETVPERNKSNGLYFRDGKCRIDYILVYRK-----SNPQTEK----REVFER	105
Qy	147	NLRAAGLCVDQDQDQDNTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNW	200
Db	106	NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRKIIYLPTRYKFM	164
Qy	203	S-----AGLLAWLGIPNVLL--EVVPDVPPEYYSRFRVKNLPRFLGSDNQDTFFTST	253
Db	165	SRIDKQISLRRLRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRHHFI-IHNKETFNNVA	223
Qy	254	KRHQILFEILAKTPYGHEKKNLGLHQLLAEGLVLSAAFLPHDGPFKTPPEGPQAPRLNQ	313
Db	224	TRSRIVHHILQRIKY-EEGKNKIGLNRLLLTNGSYEAAFLPHEGSYRSKNSIRTHGAENHR	282
Qy	314	QVLVQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGC	373
Db	283	HLLYECWASGWVYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFFAAFGLGFVFLYGV	342
Qy	374	LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL	432
Db	343	TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV	401
Qy	433	WAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER	491
Db	402	WATVLEFWKRRRAVIAYDWDLIDWEEEEIEIRPQFEAKYSKKERMNPISGKPEPYQAF	461
Qy	492	SRARRMLAGSVVIVVMVAVVMCLVSIILYRAIMAVVSRSGNTLLA-AWA-----SRIA	545
Db	462	DKCSRLIVSASGIFFMICVIAAVFGIVIVYRVVTV-----STFAAFKWLIRNNSQVA	514
Qy	546	SLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLVKVFIFQFVNIFYSS	603
Db	515	T-TGTAVCINFCIIMLLNVLYEKVALLTLNLEQPRTESEWENSFTLKMFLFQFVNLSST	573
Qy	604	VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLI	662
Db	574	FYIAFFLGRFTGHPGAYLRLINRWRLLEECHPSGCLIDLQMGIIMVLKQTWNNFMELGY	633
Qy	663	PKLKGWWQKFLRLRSKKRKAGASAGASQGPWEDDYELVPCP--GLFDEYLEMLVQFGFVTI	720
Db	634	PLIQNWWR--RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI	690
Qy	721	FVAACPLAPLAFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVIS	780
Db	691	FVAAPLAPLALALNNIIEIRLDAYKFYTOWRRPLASRAKDIGIYGILEGIGILSVTN	750

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Qy      781 AFLFAFSSDFLPRAYRYW-----TRAHDLRGLFNFTLA-----RAP 816
      ||::| :|||:| | : : |::| ::
Db      751 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYNASLSVFRISDFENRSEPEDSG 810

Qy      817 SSFAAAHNRTCryRAFRDDGH-----YSQTYWNLLAIRLAFVIVFEHVVSFVGRLLDLL 871
      | | : : ||| :| | : :|::| |::|::|::| : | : |
Db      811 SEFSGTPLKYCRYRDYRDPHSLVPYGYTLQFVHWLAARLAFIIVFEHLVFCIKHLISYL 870

Qy      872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSH 920
      :|||: : :::| | : : : | | : : |::|
Db      871 IPDLPKDLDRMRREKYLIQEMMYEALERLQKERKERKKNKAHNEW 919

```

## RESULT 7

US-11-582-861-10841

; Sequence 10841, Application US/11582861

; Publication No. US20070099251A1

; GENERAL INFORMATION:

; APPLICANT: Zhang, Hui

; APPLICANT: Aebersold, Rudolf H.

; TITLE OF INVENTION: TISSUE- AND SERUM-DERIVED GLYCOPROTEINS

; TITLE OF INVENTION: AND METHODS OF THEIR USE

; FILE REFERENCE: 460092.404

; CURRENT APPLICATION NUMBER: US/11/582,861

; CURRENT FILING DATE: 2006-10-17

; PRIOR APPLICATION NUMBER: US 60/728,044

; PRIOR FILING DATE: 2005-10-17

; NUMBER OF SEQ ID NOS: 14918

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 10841

; LENGTH: 981

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-582-861-10841

Query Match 30.9%; Score 1527.5; DB 6; Length 981;

Best Local Similarity 37.8%; Pred. No. 5e-138;

Matches 359; Conservative 168; Mismatches 317; Indels 105; Gaps 29;

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Qy      44 TSSGSHCARSMRLRRRAQEEDSTVLID----VSPPEAE-----KRGSYGST---AHASEP 91
      :||| :::| | :| | | | : : | | | |
Db      65 SSSGITNGTKVFPHPVA--KDVNILFDELEAVSSPKDDDSLHPGNLTSTSDASRLEA 122

Qy      92 GGQAAACRAGS-----PAKPRIADFVLVWEEDLKLRDQDQSAARDRTDMHRTWRETFLD 146
      || : : | | |::| : : : : | | |
Db      123 GGETVPERNKSNGLYFRDGKCRIDYILVYRK-----SNPQTEK----REVFER 166

Qy      147 NLRAAGLCVDVQDQDGNNTTVHYALLSASWAVLCYYAEDLRKLPLQE----LPNQASNW 202
      |::| | :::| : : : | | | | | | : : | : | |
Db      167 NIRAAGLQMEKESSLI--NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPFRYKFM 225

Qy      203 S-----AGLLAWLGIPNVLL--EVVPDVPPE--EYVSCRFRVKNLPRFLGSDNQDTFTTST 253
      | : : | | : | | :| : : : : | : : | :|::| :
Db      226 SRIDKQISRFRRLPKKPMRLDKETLPDLEENDCYTAPFSQQRHHFI--IHNKETFFNNA 284

```

<http://es.ScoreAccessWeb/GetItem.action?AppId=10552...124607-us-10-552-515-1.rapbm&ItemType=4&startByte=0> (15 of 29)10/10/2008 8:45:58 AM

Query Match 30.5%; Score 1511; DB 6; Length 1046;  
Best Local Similarity 39.7%; Pred. No. 2.2e-136;  
Matches 334; Conservative 156; Mismatches 264; Indels 88; Gaps 25;

<http://es.ScoreAccessWeb/GetItem.action?AppId=10552...124607-us-10-552-515-1.rapbm&ItemType=4&startByte=0> (16 of 29)10/10/2008 8:45:58 AM



[http://es.ScoreAccessWeb/GetItem.action?AppId=10552...124607\\_us-10-552-515-1.rapbm&ItemType=4&startByte=0](http://es.ScoreAccessWeb/GetItem.action?AppId=10552...124607_us-10-552-515-1.rapbm&ItemType=4&startByte=0) (17 of 29)10/10/2008 8:45:58 AM

; ORGANISM: Homo sapiens  
US-11-443-428A-801153

Query Match 30.5%; Score 1508; DB 6; Length 981;  
Best Local Similarity 39.7%; Pred. No. 3.9e-136;  
Matches 334; Conservative 156; Mismatches 264; Indels 88; Gaps 25;

```

Qy      106 KPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQDQVQDGNT 165
      | || :::||: ::: | || |||| || ::: :
Db      161 KRR1-DYILVYR-----KTNIPYDKRNTFEKNLRAEGLMLEKEPA-IASP 203

Qy      166 TVHYALLSASWAVLCYYAEDLRCLKP-----LQELPNQASNWSAGLLA 208
      : : : | || || :::| : | : || : || |
Db      204 DIMFIKIHIPWDTLCKYAERLNIRMPFRKKCYITDGRSKSMGRMQTYFRRIKWNMA---- 259

Qy      209 WLGIPIVNL-LEVVPDV-PPEYYSCFRVNLKPRFLGSDNQDTFFTSTKRHQILFEILAKT 266
      | || ||: : : | : : : : ||||| : : : : : | : |
Db      260 --QNPVMDKSAFPDLEESDCYTGPFSSRARIHHFI-INNKDTFFSNATSRIVYHMLERT 316

Qy      267 PY--GHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKT----PPEGPQAPRLNQRQVLFQHW 320
      | | | :|| :| | |||| | :| :| : || | | :| :| : |
Db      317 KYENGISK---VGIRKLINNGSYIAAFPHEGAYKSSQPIKTHGPQ---NNRHLLYERW 369

Qy      321 ARWGKWNKYQLDHHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFS DIP 380
      |||| | :||| : | ||||| : ||||| : ||| : ||| : | | : :
Db      370 ARWGMWYKHQPLDLIRLYFGEKIGLYFAWLGWYTGMLIPAAIVGLCVFFYGLFTMNSQV 429

Qy      381 TQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLE 439
      :||: : : | |||| :| | : : | : ||: ||||| : ||| : | |
Db      430 SQEICKATEVF-MCPLCDKNCSLQRLNDSICIYAKVTYLFNDGGTVFFAIFMAIWAIVFLE 488

Qy      440 YWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRML 498
      :||: : | :|| :| |||| | | |||| | | |||| | | : | : |
Db      489 FWKRRRSILTYTWDLIEWEEEEETLRPQFEAKYKMEIVNPITGKPEPHQPSDDKVTRELL 548

Qy      499 AGSVVIVVMVAVVVMCLVSIILYR-AIMAIVVSRSNGNTLLAAWASRIASLTGSV-VNLVF 556
      | :||: : : :|| :| | | : : : : : : : : : :
Db      549 VSVSGIFFMISLVITAVFGVVVYRLVVMQEFASFKNWFIKQYW--QFATSAAAVCINFII 606

Qy      557 ILILSKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIQFVNFSVPVYIAFFKGRFVG Y 616
      |::| : | :||| | |:::|::| |::|:|||| | | |||| ||||| :
Db      607 IMLLNLAYEKIAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVG H 666

Qy      617 PGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKKGWQKFLRL 675
      || :| | | || | |||| :| :| || | :| | :| :| : : :
Db      667 PGKYNKLFDRWRLEECHPSGCLIDLCLQMGVIMFLKQIWNFMELGYPLIQNWWSRHKI- 725

Qy      676 SKKRKAGASAGASQGPWEDDYELVP--CEGLFDEYLEMVQLQFGFVTIFVAACPLAPL FAL 733
      | | | || :| :| | | ||||| ||||| ||||| |||| |
Db      726 ----KRG1H-DASIPQWENDWNLQPMNLHGLMDEYLEMVQLQFGFTTIFVAAPLAPLLAL 780

Qy      734 LNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPR 793
      :| :||| | | :||| :| |||| | | |||| | | |||| :| :| :| :|
Db      781 LNNIIEIRLDAYKFVTQWRRLPARATDIGIWLGLEIGIGILAVITNAFVIAITS DYIPR 840

```



Qy 251 TSTRKHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRL 310  
| | :|:| | :| | : :| | | | :|:| | | : :  
Db 242 DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF 295

Qy 311 NQRQVLFGHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLV 370  
| | :|:| :| | | : | | | :| | | | | | | | | | :|:| :| :| |  
Db 296 NDRKLLYEEWARYGVFYKQPIDLVRKYFGEKIGLYFAWLGVYQMLIPASIVGIIIVFLY 355

Qy 371 GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLF 429  
| | : :|:| :| : : : | | | | | | :| :| | | :| :| | | :| | :| |  
Db 356 GCATMDENIPSMEMCDQRHNITMCPLCDKTCYWKMSACATARASHLFDNPATVFFSVF 415

Qy 430 MALWAVLLELYWKRSATLAYRWDCSDYEDTEE-----RPRPQFAA-----SAPMTAPNPI 480  
| | | :|:| :| :| : : | | | : :| :| | | | :| :| :| :| :| :| :| :|  
Db 416 MALWAATFMEHWKRKQMLNRYRWDLTGFEEEEAVKDHPRAEYEAARVLEKSLKKESRNKE 475

Qy 481 TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAW 540  
| | : :| :| | | | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 476 T--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSN 533

Qy 541 ASRIASLTGSVVNLVFILILSKIYVSLAHLVTRWEMHRTQTKFEDAFTLKVFIFQFVNFY 600  
: | :|:| | :|:| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 534 IRVTVTATAVINLVIIILLDEVYGCIARWLTKEIVPKTEKSFEERLIFKAFLLFVNSY 593

Qy 601 SSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGLIELAQELLVIMVGKQVI--NNMQ 658  
: | :|:| | | | | | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 594 TPIFYVAFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLF 653

Qy 659 EVLIPKLKGWQKFRRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFV 718  
| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 654 EIGIPKMKKLIRYLKLGKQSPDHEECVKKRQRYEVDYNLEPFAGLTPEYMEMIIQFGFV 713

Qy 719 TIFVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVI 778  
| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 714 TLFVASFPLAPLALLNNIIEIRLDAKKFVTELRFPVAVRAKDIGIWINILRGIGKLAVI 773

Qy 779 SNAFLLASDSDLFRA--YYRWTRAHDLRGFLNFTLARAPSSF-----AAAHN----- 824  
| | :|:| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 774 INAFVISFTSDFIPRLVLYLMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPNDPLDL 829

Qy 825 ----RTCryAFRD---DDGHy---SQTYWNLALIRLAFVIVFEHVVSFVGRLLDLLVPDI 875  
: | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 830 GYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVFMFMSDFVDWVIPDI 889

Qy 876 PESVEIKVKREYLA-----KQALAENEVLFGTNGTKDEQP-----KG 913  
| : : :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|  
Db 890 PKDISQIHKEKVMVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHHTNKACPDSLG 947

Qy 914 SELSSH 919  
| |  
Db 948 SPAPSH 953

RESULT 11

US-11-177-894-11  
; Sequence 11, Application US/11177894  
; Publication No. US20060040292A1  
; GENERAL INFORMATION:  
; APPLICANT: West, et al.  
; TITLE OF INVENTION: Tumor Markers and Uses Thereof  
; FILE REFERENCE: 2002850-0048  
; CURRENT APPLICATION NUMBER: US/11/177,894  
; CURRENT FILING DATE: 2005-07-08  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 11  
; LENGTH: 840  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Homo sapiens  
US-11-177-894-11

Query Match 29.9%; Score 1479.5; DB 6; Length 840;  
Best Local Similarity 40.0%; Pred. No. 1.8e-133;  
Matches 340; Conservative 152; Mismatches 270; Indels 89; Gaps 22;

Qy	135	DMHRTWRETFLDNLRAAGLCVDQDVQDGNNTTVH---YALLSASWAVLCYYAEDLRKLKP	191
		:       : : :   :   : :             :	
Db	6	DDKRFRREEYEGNLLEAGLELE---RDEDTKIHGVGFVKIHAPVNVVLCREAEFLKLKMP	61
Qy	192	LQELPNQASNWSAGLLAWLGIPNVLLLEVVDVDPPEYYSCR-----FRVNLKPRFL	241
		: : :   :         :     : : :   :	
Db	62	TKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYPFSSREKQHLFD	117
Qy	242	GSDNQDFTFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFLPHDGPFKTP	301
		:         :         :         :	
Db	118	LSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY---	172
Qy	302	PEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAA	361
		:   :	
Db	173	--NGENVEFNDRKLLYEAWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPAS	230
Qy	362	VVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDH	420
		:     :           : :     :   :	
Db	231	IVGIVFLYGCATMDENIPSMEMCDQRHNITMCPCLCKTCSYWKMSACATARASHLFDN	290
Qy	421	GGTVFFSLFMAWVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMT	475
		:           :   :             : :   :   :	
Db	291	PATVFFSVFMALWAATFMEHWKRKQMLNRYRWDLTGFEEEDHPRAEYEARVLEKSLKKE	350
Qy	476	APNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSIILYRAIMAVVSRSGNT	535
		:         :   :                     :   :         : :	
Db	351	SRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVFAIVLGVIYIRISMAAALAMNSSP	408
Qy	536	LLAAWASRIASLTGSVVNLVFIILSKIYVSLAHVLTREWEMHRTQTQKFEDAFTLVKFIFQ	595
		: : :   :	
Db	409	SVRSNIRVTVTATAVIINLVVILLDEVYGCIARWLTKIEVPKTEKSFEERLIFKAFLLK	468

Qy 596 FVNFYSSPVYIAFFKGRFVGYPGNYHTLF--GVRNEECAAGGCLIELAQELLVIMVGKQVI 654  
 ||| |: |:||||||| |:| :| | ||| |||:| :| |:|:|:|  
 Db 469 FVNSYTIPIFYVAFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLI 528

Qy 655 -NNMQEVLIPKLGWQKFRRLRSKKRKAGASAGASQGPWEDDYELVPCGLFDEYLEMVL 713  
 ||: |: |||:| : :|: : :| | | | | || |:|:|:  
 Db 529 QNNLFEIGIPKMKKLIRYLKLGKQSPPDHEECVKRKQRYEVDYNLEFPAGLTPEYMEMII 588

Qy 714 QFGFVTIFVAAFLAPLPLFALLNNVVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLT 773  
 |||||:|:|: | |||||:|:| :|||:| | | ||| |:|:|:|:| :|  
 Db 589 QFGFVTLFVASFPLAPLPLFALLNNIIETRLDAKFVTELRRPFAVRAKDIGIWNILRGIG 648

Qy 774 HLAVISNAFLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF-----AAAHN 824  
 |||| |:|:|:|:|:| | :| : |:| | | || | |  
 Db 649 KLAVIDAFVISFTSDFIPRLVLYMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPN 704

Qy 825 -----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVSFVGRLLDL 870  
 : |||: |: : | |:| :| | |||||:|:| : :|  
 Db 705 DPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVFMFMSDFVDW 764

Qy 871 LVPDIPESVEIKVKREYYLA-----KQALAENEVLFGTNGTKDEQP----- 911  
 :|||: : :| | | | | | | | | | | | | | | | |  
 Db 765 VIPDIPKDISQKHEKVLMLVLFMREEQDKQQLL--ETCMEKERQKDEPPCNHNTKAC 822

Qy 912 ---KGSELSSH 919  
 || ||  
 Db 823 PDSLGSFAPSH 833

## RESULT 12

US-11-443-428A-774192

; Sequence 774192, Application US/11443428A

; Publication No. US20070083334A1

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hangqing

; APPLICANT: Dahari, Dvir

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 774192

; LENGTH: 999

; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-11-443-428A-774192

Query Match 29.6%; Score 1464; DB 6; Length 999;  
 Best Local Similarity 37.4%; Pred. No. 7.7e-132;  
 Matches 344; Conservative 167; Mismatches 284; Indels 124; Gaps 27;

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Qy      80 GSYGSTAHASEPGGQQAACRAGSPAKPRIADFLVWVEEDLKLDROQDSAAARDRTDMHRT 139
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db     125 GETGKEPHAGGPG-----DIELG-PLDALEERKEQ--- 154

Qy     140 WRETFLDNLRAAGLCVDQDQDGNTTVHYALLSASWAVLCYYAEDLRCLKPLQELPNQ- 198
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db     155 -REEFEHNLMEAGLEL-EKDLENKSQGSIFVRIHAPWQVLAREAEFLKIKVPTKKEMYEI 212

Qy     199 -----ASNWSAGLLAWLGIPNVLLVVPDVPPEYYSCRFRVNKL-----RFLGSDNQ 246
      | :| | : : | | | | : : : | : : : | : : : | : : : | : : : | : : : |
Db     213 KAGGSIAKFSAAAL-----QKLSSHLQPRV-PEHSNNKMNLSYPPSREKMYLYNIQEK 265

Qy     247 DTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQ 306
      |||| : | :| : || : | : | : | : | : | : | : | : | : | : | : | : | : |
Db     266 DTFFDNATRSRIVHEILKRTACS-RANNTMGINSLIANNIYEAAAYPLHDGEYDSPEDD-- 322

Qy     307 APRLNQRQVLFQHWARWGKWNKYQPLDHSVRYFGEKVALYFAWLGFYTGWLLPAAVVGTL 366
      : | :| :| | | : | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     323 ---MNRKLLYQEWARYGVFYKFQPIDLRKYFGEKIGLYFAWLGLYTSFLIPSSVIGVI 379

Qy     367 VFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVF 425
      | | : | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     380 VFLYGCATIEEDIPSREMCDQQNAFTMCPLCDKSCDYWNLSACGTAQASHLFDNPATVF 439

Qy     426 FSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEER----PRPQFAA----- 470
      | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     440 FSIFMALWATMFLENWKRLQMRGLYFWDLTGIEEEEERAQEHRSPEYETKVREKMLKESN 499

Qy     471 -SAPMTAPNPIT----GEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSIILYRAIM 525
      | | | | :| | : | | | | :| :| :| :| :| :| :| :| :| :| :| :|
Db     500 QSAVQKLETNTTECGDEDEDKLTWKRDRFPGYLMNMFASILFMIALTFSIVFGVIVYRITT 559

Qy     526 AIVVSRSGNTLLAAWASRI---ASLTGSVNVNLFILILSKIYVSLAHVLRWEMHRTQTK 582
      | :| | | | : | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     560 AAALS-----LNKATRSNVRVTVTATAVIINLVVILILDEIYGAVAKWLTKIEVPKTEQT 614

Qy     583 FEDAFTLKVFIFQVFNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELA 641
      | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     615 FEERLILKAFLLKFVNAYSPIFYVAFFKGRFVGRPGSYVYVDFGYRMEECAPGGCMLC 674

Qy     642 QELLVIMVGKQVI-NNMQEVLIPKLKGWQKFRRLRSKKRKAGASAGA-SQGP--WEDDYE 697
      : | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     675 IQLSIIMLKGQLIQNNIFEIGVPKLK--KLFRKLKDETEAGETDSAHSKHPEQWDLDS 731

Qy     698 LVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLALLNNWVEIRLDARKVFCEYRRPVAE 757
      | | | | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

```

[http://es.ScoreAccessWeb/GetItem.action?AppId=10552...124607\\_us-10-552-515-1.rapbm&ItemType=4&startByte=0](http://es.ScoreAccessWeb/GetItem.action?AppId=10552...124607_us-10-552-515-1.rapbm&ItemType=4&startByte=0) (24 of 29)10/10/2008 8:45:58 AM



US-11-097-143-15228

Query Match 29.2%; Score 1445; DB 6; Length 1219;  
 Best Local Similarity 35.6%; Pred. No. 7.3e-130;  
 Matches 342; Conservative 165; Mismatches 332; Indels 122; Gaps 27;

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Qy      35 AERWAMTSETSSGSHCARSRML-----RRRAQEEDSTVLIDVSPPEAEKRGSY 82
      |:| :| || |:| |:| :| |:| ||
Db      249 ADRVNQSYEVMESSH---SNVLPDQFGYRQLIPTEKASDTASSV-----SGSY 294

Qy      83 GSTAHASEP---GGQQAACRAGSPAKP-----RIADFVLVW-EEDLKLDRQ 125
      : ||: ||: | : | | | | | | : :
Db      295 YGSRKASKSNSLGGESGDERRVSKQDREGLDPESLMFRDGRRKVDMLAWEEEDLGVMT 354

Qy     126 QDSAARDRTDMHRTWRETFLDNLRAAGLCVDQD-QVDGNTTVHYALLSASWAVLCYYAE 184
      :: || |:|:| || |:| | | : : | |
Db     355 AEAKRRDN-----RRSFMENLIKEGLEVELEDKQSFNEKTFFLKIHLPWRLERLAE 407

Qy     185 DLRLKLP-----LQELPNQASNWSAGLLAWLGIPNVLEVVPDPVP 225
      : ||| | : | | | : : | |
Db     408 VMNLKLPVKRFITISVKPSWDEENVVLRNMQYKWDVWQR-LTKKIQLDQTLLE---GET 462

Qy     226 EYYSRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLGIHQLLAEG 285
      : : | :|: | : | || |:| : : |:| : : | |:| : :
Db     463 TFKAATANGNPEEQFIVKD-RATAFTSAQRSLMVMQVLIPTPFDESDRS---GIRRLMNDG 519

Qy     286 VLSAAFFLHDGPFKTPPEGPQAPRLN-QRQVLFQHWARWGKWNKYQLDHRVRYFGEKVA 344
      ||||:| : : | : : |:|:| || :| ||| ||:|:|:|
Db     520 TYLGCFPLHEGRY---DRPHSSGISLDRRVLYQTWAHPSQWYKQKPLCLVRKYFGDKIA 575

Qy     345 LYFAWLGFYTGWLLPAAVVGTLVLVGCFLVFS--IPTQELCG--SKDSFEMCPLC-LD 399
      ||| ||||| |:| ||||| |:| : |:| |:|:| : : ||||
Db     576 LYFCWLGFYTEMLVYPVAVGTLCFIYGLATLESEDNTPSKEICNEYGTGNITLCPLCDKA 635

Qy     400 CPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYED 459
      | : | :| : : |||: |||:|:| || || ||| : : | : |
Db     636 CSQRLSESCLFRLTYLFDPNPSTVFFAIFMSFWATTFLLELWKRKQSVLVWEWDLHNVD 694

Qy     460 TEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVMVAVVMCLVSII 519
      : |||: | ||:| ||| : : : : : : : : : : : |
Db     695 MDEENRPEFETNATTFMRNPVTREKEPYMSTWNRSIRFVITGSAVLFMISVVLAVLGTI 754

Qy     520 LYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLRWEMHRT 579
      ||| : |:| | : | |:| :||| |:|:|:| :| || | ||
Db     755 LYRITLVSVIYGGGGFFVKEHAKLFTSVTAALINLVVIMILTRIYHRMAIKLTNLENPRT 814

Qy     580 QTKFEDAFTLKVFIQFVNIFYSSPVYIAFFKGRFVGYPGNYHT---LFGVRNEECAAGG 635
      |:|:|:| |:| |:|:| ||| :||| |||:| : |:| | |
Db     815 HTEYEDSYTFKIFFEFMFNYSSLIYIAFFKGRFFDYPGDDQARKSEFFRLKNDICDPAG 874

Qy     636 CLIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFRRLSKRRKAGASAGASQGPWEDD 695
      || | :| : ||||| || | || |:| : | :| || |
Db     875 CLSELCIQLAIMVGKQCWNFMMEYLFKPFWNWWR---QRKHQATKDESHLHMAWEQD 930

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Db      7 LC--ARVLKLMKPTKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60
Qy      232 ---FRVNKLPRFLGSDNQDTFFTSTKRHQLFEILAKTPYGHEKKNLLGIHQLLAEGVLS 288
Db      61 SYFPSREKQHLFLDLS--KDSFFDSKTRSTIVYEILKRTTCTKAKYS--MGITSLLANGVYA 118
Qy      289 AAFPLHDGPFKTPPEGPQAPRLNQRVLFQHWARWGKWNKYQLDHWRRYFGEKVALYFA 348
Db      119 AAYPLHDGDY-----NGENVEFNDRLKLLYEEWARYGVFYKYQPIDLVRYKFGEKIGLYFA 173
Qy      349 WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC--LDCPFWLLSS 407
Db      174 WLGVTYQMLIPASIVGLIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTKSYWKMS 233
Qy      408 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R 463
Db      234 ACATARASHLFDNPNATVFFSVFMALWAATFMEHWKRKQMRNLNRYWDLTGFEETEEAVKDH 293
Qy      464 PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSI 518
Db      294 PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFIAVLGV 351
Qy      519 ILYRAIMAIVVSRSNGNTLLAAWASRIASLTGSVVNLVFIILSIKYVSLAHVLTWEMHR 578
Db      352 IYRISMAAALAMNSSPSVRSNRIVTVTATAVIINLVVILLDEVYGCIARWLTKEIVPK 411
Qy      579 TQTKFEDAFTLKVFIFQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLF--GVRNEECAAGGCL 637
Db      412 TEKSFEERLIFKAFLKLFVNSYTIPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL 471
Qy      638 IELAQELLVIMVGQVI--NNMQEVLIPKLKGWQKFLRLRSKKRKAGASAGSQGPWEDDY 696
Db      472 MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLGKQSPPDHEECVKRKQRYEVDY 531
Qy      697 ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARKFVCEYRRPVA 756
Db      532 NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFAALLNNIIEIRLDAKFFVTELRRPVA 591
Qy      757 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLAR 814
Db      592 VRAKDIGIWNILRGIGKLAVIINAFVISFTSDFIPRLVLYLYMSKNGTMHGFVNHTL-- 649
Qy      815 APSSF-----AAHN-----RTCRYAFRD---DDGHY--SQTYWNLLAIRLAF 853
Db      650 --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF 707
Qy      854 VIVFEHVVFVSGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAEENVLFGT 903
Db      708 VIVFQNLVMFMSDFVDVWIPDIPKDISQIHKKEKVLMLVFMREEQPKQQLL--ETWMEK 765
Qy      904 NGTKDEQP-----KGSELSSH 919
Db      766 ERQKDEPPCNHHNTKACPDLSLGSFAPSH 793

```

## RESULT 15

US-11-443-428A-739454

; Sequence 739454, Application US/11443428A

; Publication No. US20070083334A1

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanging

; APPLICANT: Dahari, Dvir

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 739454

; LENGTH: 800

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-443-428A-739454

Query Match 28.6%; Score 1417; DB 6; Length 800;

Best Local Similarity 40.3%; Pred. No. 2e-127;

Matches 326; Conservative 142; Mismatches 252; Indels 88; Gaps 22;

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Qy      179 LCYYAEDLRLLKLPLQELPNQASNWSAGLLAWLGIPNVLLVVPDVPPEYYSCR----- 231
      || | | :|:| :| :| :| | | :| :| :| :| :|
Db      7 LC--ARVLKLLKMPKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60

Qy      232 ---FRVKNKLPRLGLSDNQDTFFSTTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS 288
      | | | | :|:| :| | | :|:| :| | | :| :| :| :| :|
Db      61 SYFFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA 118

Qy      289 AAFPLHDGPFKTPPEGPQAPRLNQRQVLFGHWRWGWKNKYQPLDHVRRYVGEKVALYFA 348
      |:|:|:| :| :| | :|:| :| |:| :| :|:| :| |:|:|:| :|:|
Db      119 AAYPLHDGDY----NGENVEFNDKRLLYEEWARYGVFYKYQPIDLVKRYVGEKIGLYFA 173

Qy      349 WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS 407
      ||| || |:|:|:| :|:| || :| :|:| :| :| :| | | :| :|
Db      174 WLGVYQMLPIASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCLCDKCTSYWKMS 233

Qy      408 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE---R 463
      ||| |:| ||| :|:|:|:|:| :|:|:| | ||| :|:| :|
Db      234 ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRNLNRYWDLTGFEIEEEAVKDH 293

```

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Qy      464 PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSI 518
      || :: | | : | | | : | | | | : | | : :
Db      294 PRAEYEARVLEKSLKKEsrNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFIAVLGV 351

Qy      519 ILYRAIMAIVVSRSGNTLLAAWASRIASLTGSSVNVLVFILILSKIYVSLAHLVLRWEMHR 578
      |:: || :: : : : : : | : ||| |:: | : | ||: |:
Db      352 ILYRISMAAALAMNSSPSVRSNIRVTVTATAVINLVVILLDEVYGCIARWLTKIEVPK 411

Qy      579 TQTKFEDAFTLKVFIFQFVNFISSPVYIAFFKGRFVGYPGNYHTLF--GVRNEECAAGGCL 637
      |: ||: | | : ||| | : |:: ||| ||: | : | | ||| |||
Db      412 TEKSFEERLIFKAFLLKFVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL 471

Qy      638 IELAQELLVIMVGKQVI--NNMQEVLIPKLKGWWQKFLRLSKRRKAGASAGASQGPWEDDY 696
      :|| : | :||: ||| | ||: | : ||| | : : : : : : : | ||
Db      472 MELCIGLSIIMLGKQLIQNNLFEIGIPKMKKLIIRYLLKQKQSPPDHEECVKRKRQYEVY 531

Qy      697 ELVPCGEGLFDEYLEMVLQFGFVTIFVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVA 756
      | | || ||: ||: ||| |||: |||: ||| ||| ||| : ||| ||| | ||| |||
Db      532 NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLALLNNIIIEIRLDARKFVTELRRPVA 591

Qy      757 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRA--YRWTRAHDLRGLNFTLAR 814
      ||: ||| ||: || : ||| |||: ||: |||: || | : : : ||: | ||
Db      592 VRAKDIGIWINILRGIGKLAVIINAFVISFTSDFIPLRVLYMYSKNGTMHGFVNHTL-- 649

Qy      815 APSSF-----AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF 853
      ||| | | : ||| : ||: | : | : | : | | |||
Db      650 --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF 707

Qy      854 VIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFGT 903
      ||| ||: || : : ||: ||| : : : : | | | | |
Db      708 VIVFQNLVMFMSDFVDWVIPDIPKDISQQIHKEKVLMLVELFMREEQDKQQLL--ETWMEK 765

Qy      904 NGTKDEQP-----KGSELSSH 919
      ||| | | | | |
Db      766 ERQKDEPPCNHNTKACPDLSLGPAPSH 793

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Search completed: October 1, 2008, 13:00:05

Job time : 830 secs

SCORE 4.0